

Claims

[c1] What is claimed is:

1.A light source module comprising:

a light source for generating light beams;

a first lens array positioned on a side of the light source;

and

an invisible-light cut filter positioned on a side of the first lens array away from the light source, the invisible-light cut filter being nonparallel with the first lens array.

[c2] 2.The light source module of claim 1 further comprising a second lens array positioned on the same side of the light source as the first lens array.

[c3] 3.The light source module of claim 2, wherein the second lens array is positioned on a side of the invisible-light cut filter away from the light source.

[c4] 4.The light source module of claim 1 further comprising a PS converter positioned on a side of the invisible-light cut filter away from the light source.

[c5] 5.The light source module of claim 1, wherein the invisible-light cut filter and a direction parallel with the first lens array have an included angle, the included angle be-

ing an acute angle.

- [c6] 6.The light source module of claim 5, wherein a range of the included angle is about 11 to 45 degrees.
- [c7] 7.The light source module of claim 1, wherein the invisible-light cut filter is used for reflecting ultraviolet (UV) and infrared (IR) light of the light beams.
- [c8] 8.The light source module of claim 1, wherein the light source is an extra-high pressure mercury lamp.
- [c9] 9.The light source module of claim 1 further comprising a light source housing surrounding a portion of the light source for reflecting the light beams so that the light beams propagate toward the first lens array.
- [c10] 10.The light source module of claim 1, wherein the light source module is applied to a projector.
- [c11] 11.A light source module of a projector comprising:
 - a light source for generating light beams;
 - a first lens array positioned on a side of the light source;
 - a second lens array positioned on a side of the first lens array away from the light source; and
 - an invisible-light cut filter positioned between the first lens array and the second lens array, the invisible-light cut filter and a direction parallel with the first lens array

having an included angle, and the included angle being an acute angle.

[c12] 12.The light source module of claim 11, wherein a range of the included angle is about 11 to 45 degrees.

[c13] 13.The light source module of claim 11 further comprising a PS converter positioned on a side of the second lens array away from the light source.

[c14] 14.The light source module of claim 11, wherein the invisible-light cut filter is used for reflecting UV and IR light of the light beams.

[c15] 15.The light source module of claim 11, wherein the light source is an extra-high pressure mercury lamp.

[c16] 16.The light source module of claim 11 further comprising a light source housing surrounding a portion of the light source for reflecting the light beams so that the light beams propagate toward the first lens array.